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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,196	01/21/2004	Kia Silverbrook	RRA08US	1335

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SILVERBROOK RESEARCH PTY LTD  
393 DARLING STREET  
BALMAIN, 2041  
AUSTRALIA

EXAMINER
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HAUPT, KRISTY A

ART UNIT	PAPER NUMBER
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2853

DATE MAILED: 04/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/760,196

Applicant(s)

SILVERBROOK, KIA

Examiner

Kristy A. Haupt

Art Unit

2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 21 January 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 January 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 11/08/04
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Information Disclosure Statement***

The information disclosure statement (IDS) submitted on November 8, 2004 is in compliance with the provisions of 37 CFR 1.97, and accordingly, has been considered by the Examiner.

### ***Drawings***

1. The drawings are objected to because they do not contain the reference numbers as specified in the DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the

examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

- Figure 2 lacks reference number 4 (cradle) as stated on Page 5, Lines 20 and 25 of the specification.
- Figure 7 lacks reference number 43C (conduit) as stated on Page 6, Line 13 (43A-43E).
- Figure 14 lacks reference number 122 (air compressor) as stated on Page 7, Line 6. The Examiner believes the reference number 122 is contained in Figure 3.
- Figure 15 lacks reference number 124 (air nozzle) as stated on Page 7, Line 7. The Examiner believes the reference number 124 is contained in Figure 3.
- Figure 9 lacks reference numbers 84A and 84B (corresponding connectors) as stated on Page 7, Line 13.
- Figures 3-9 lack reference number 68B (flanges) as stated on Page 7, Line 24.
- Figures 10-18 lack reference number 12 (inkjet printhead chip) as stated on Page 8, Line 20.
- Figures 10-19 lack reference number 8034 (nozzle roof) as stated on Page 9, Lines 5 and 12.
- Figures 10-19 lack reference number 8013 (ink) as stated on Page 10, Line 4.

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- Figure 11 lacks reference number 29 (chamber) as stated on Page 10, Line 20. The Examiner believes the reference number should read 8029.
- Figure 11 lacks reference number 11 (fluid seal) as stated on Page 10, Line 21. The Examiner believes the reference number should read 8011.
- Figures 10-19 lack reference number 8043 (finger) as stated on Page 11, Line 6.
- Figure 20 lacks reference number 10 (controller board) as stated on Page 11, Line 15.
- Figure 20 lacks reference number 57 (QA chip) as stated on Page 11, Line 19.
- Figure 20 lacks reference number 156 (rotor element angle sensor) as stated on Page 11, Line 22.
- Figure 20 lacks reference number 60 (rotor element) as stated on Page 11, Lines 22 and 27.
- Figure 20 lacks reference number 52 (printhead chip) as stated on Page 11, Lines 25, 28 and 30.
- Figure 20 lacks reference number 6 (print cartridge) as stated on Page 11, Line 26.
- Figures 21-31 lack reference number 123 (slots) as stated on Page 12, Line 9.
- Figure 25 lacks reference number 127 (drive shaft) as stated on Page 12, Line 21.

- Figures 21-31 lack reference number 100B (bearing mount assembly) as stated on Page 12, Line 25.
- Figures 21-31 lack reference numbers 101A and 101B (slots) as stated on Page 12, Lines 23-24.
- Figure 30 lacks reference number 110 (motor) as stated on Page 13, Line 2.
- Figure 30 lacks reference number 82 (control board) as stated on Page 13, Line 2.
- Figure 31 lacks reference number 94 (rotor element drive roller) as stated on Page 13, Line 6.
- Figure 31 lacks reference number 148A (cam) as stated on Page 13, Line 6.
- Figure 31 lacks reference number 150A (cam follower) as stated on Page 13, Line 7.
- Figure 31 lacks reference number 152A (pivot pin) as stated on Page 13, Line 8.
- Figure 20 lacks reference number 156 (rotor element sensor unit) as stated on Page 13, Line 15.
- Figures 21-31 lack reference numbers 58A and 58B (cartridge connectors) as stated on Page 14, Line 2.
- Figures 21-31 lack reference number 134 (recess) as stated on Page 14, Line 4.

- Figures 21-31 lack reference number 176 (QA chip) as stated on Page 14, Line 5.
- Figures 21-31 lack reference number 162 (ink refill cartridge) as stated on Page 14, Line 5.
- Figure 27 lacks reference number 89 (recess) as stated on Page 22, Line 25.
- Figure 40 lacks reference number 35 (refill sensor) as stated on Page 24, Line 19.

2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character “**43E**” in Figure 7 has been used to designate both conduit **43C** and conduit **43E**. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Specification***

3. The disclosure is objected to because of the following informalities:
- On page 8, Line 20 the silicon wafer substrate is referenced as number 801. It was previously referenced as number 8015.

Appropriate correction is required.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-4 are rejected under 35 U.S.C. 102 (b) as being anticipated by Silverbrook et al. (6,347,864 B1).

With respect to claim 1, Silverbrook et al. teaches:

- A printer cartridge (reference number 504 in Figure 1)
- For an inkjet printer (Column 1, Lines 15-16)
- A printing fluid storage (Column 3, Line 11, Figure 5, # 548):
- A printhead in fluid communication with the printing fluid storage (Column 1, Lines 53-54 teach a "...fluid supply path, which supplies the fluid to the printhead.")
- An air inlet (reference number 526 in Figure 2)



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- One or more conduits arranged to direct air from the air inlet over the printhead (Conduit or pump, # 522, draws air, Column 2, Lines 52-53; Air expelled into air channel, # 518, Column 2, Lines 55-56). The air supply channel supplies air to the printhead to inhibit the build up of foreign particles...Column 2, Lines 47-49)

With respect to claim 2 and incorporating all arguments of claim 1, Silverbrook et al. additionally teaches:

- Wherein the printhead comprises a pagewidth printhead (Column 1, Line 11)

With respect to claim 3 and incorporating all arguments of claims 1 and 2, Silverbrook et al. additionally teaches:

- A printer cartridge wherein the air inlet is configured to mate with a complementary formation of the inkjet printer (In Figure 10, Air inlet opening, # 734, is supplied air from the pin, # 524, that pierces the film, # 748, of the air filter element, # 740, in the replaceable print cartridge, Figure 5 # 504, of the print engine, Figure 5 # 500)

With respect to claim 4 and incorporating all arguments of claims 1, 2, and 3 above, Silverbrook et al. additionally teaches:

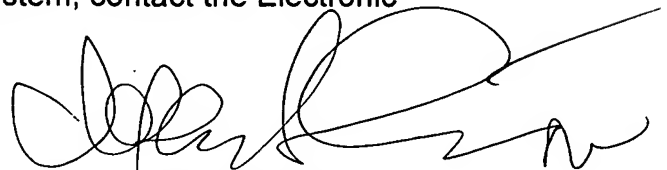
- A printer cartridge wherein the air is supplied to the air inlet by said complementary formation of the inkjet printer, which is in communication with an air supply source (In Figure 10, Stepper motor, # 530, drives an air pump, # 522, that draws in air through the air inlet, # 734, through a pin, # 524, that pierces the film, # 748, of the air filter element, # 740, in the replaceable print cartridge, Figure 5 # 504, of the print engine, Figure 5 # 500)

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kristy A. Haupt whose telephone number is (571) 272-8545. The examiner can normally be reached on M-F 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
LAMSON NGUYEN  
PRIMARY EXAMINER  
03/30/05